METHOD AND SYSTEM FOR ASSIGNING OBSERVATIONS

ABSTRACT OF THE DISCLOSURE

       According   to   one   embodiment   of   the   invention,   a
computerized method for assigning observations includes
receiving a plurality of first observations indicative of

5   respective physical parameters observed by a first sensor
system and receiving a plurality of second observations
indicative of respective physical parameters observed by
a   second   sensor   system.   The   method   also   includes
assigning, by a computer, a set of pairs of the first and

10   second observations predicted to correspond to the same
physical parameter.   The assigning includes receiving a
cost function that specifies a cost for each assigned
pair.   The cost is not independent of the assignment of
any other assigned pairs in the set of assigned pairs.

15   The   assigning   also   includes   determining   the   set   of
assigned pairs corresponding to an optimal value for the
cost   function   by   calculating,   by   the   computer,   a
corresponding   optimal   value   for   a   directed   graph
representative   of   possible   assignments   of   first   and

20   second observations.